CS-Studio at NSLS2

CS-Studio versions

- Default version
  - 4.1.5

- Preparing to migrate to
  - 4.3.3b

Integrated Framework

Olog

Date/Time	Description	User	Group	Tag	#
8/23/16 12:16 AM	SR filled to 250mA with topoff injections resuming.	santana	Operations	Beam Available	1
8/23/16 12:05 AM	successfully restore machine with the snapshot #2295(filtered with pattern *bpm*) of	santana	Operations	MASAR	0
8/22/16 11:58 PM	Transmitter D - CCG7 taper vacuum fault & Klystron reverse power fault.	santana	Operations		1
8/22/16 11:57 PM	Post-mortem shows cavity D field collapses first then C becomes unstable and collapses	weiner1	Operations	RF Systems	3
8/22/16 11:56 PM	RF Status shows only 4 Transmitter D faults & 3 Transmitter C faults.	santana	Operations		1
8/22/16 11:55 PM	C31 AIS Status shows horizontal orbit instability on the dispersion BPMs.	santana	Operations		1
8/22/16 11:54 PM	Cell 31 Active Interlock Status	weiner1	Operations	Diagnostics	1
8/22/16 11:53 PM	Beam Dump from Cavity D taper vacuum fault.	santana	Operations	Beam Dump	0
8/22/16 9:30 PM	Mod 3 CT arc & Sw6 temp resets given	santana	Operations		1

Sharepoint

Issues:

A lot of duplication of data entry.

No references to the log entries from the fault report.

Date	Description	Owner	Logbooks	Tags	A...s
9/21/16 10:50	SR filled to 250mA with topoff injections resuming.				2
9/21/16 10:45	RF Status shows only 4 Transmitter D faults & 3 Transmitter C faults				1
9/21/16 10:42	Cell 31 Active Interlock Status				3
9/21/16 10:40	Beam Dump from Cavity D taper vacuum fault.				0
9/21/16 1:58 PM	A Fault with log entries				1

📋 Copy URL to Clipboard

➡ Export Logs

⚠ Create Fault Report

• Creating fault reports from log entries.

Create a Fault Report

Fault Id: New Fault Report

Area:* Global

Sub System:* EPS

Device:* M01

Fault:* Beam Dumped from Cavity D taper vacuum fault
Transmitter D detected faults -CCG7 taper vacuum fault & Klystr
Post-mostem shows cavity D field collapsed first then C become

Assign: Operations Contact: Reid Smith<smithr@bn

Occurred:* 2016-09-21T22:56:10.979 ... Cleared: 9-21T22:56:18.979 ...
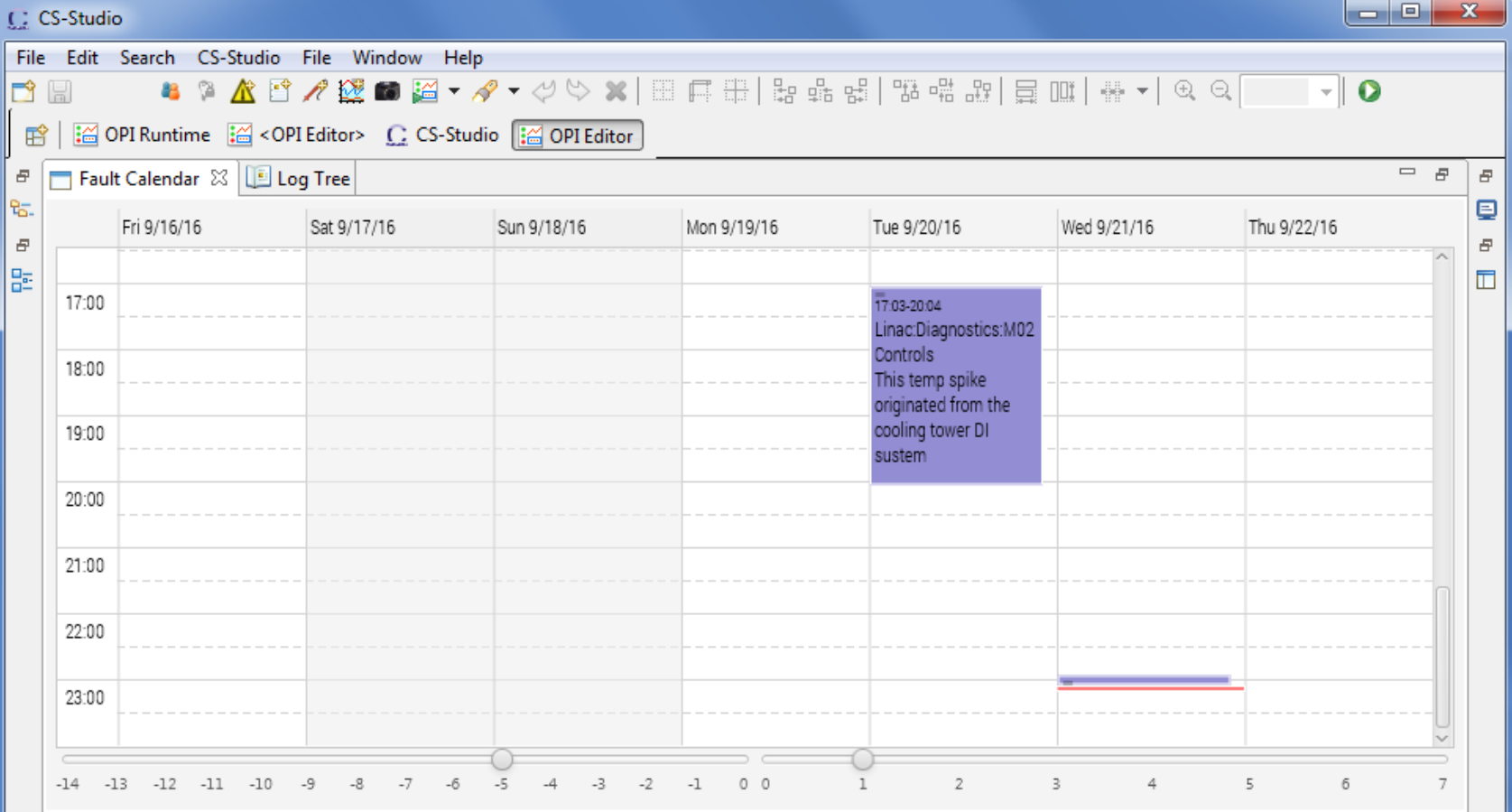
Beam Lost:* False

Start: ... Restored: ...

Cause:

Repair:

Corrective:

Log Ids: 6;7;8;9

Submit Cancel

File   Edit   Search   CS-Studio   File   Window   Help

OPI Runtime   <OPI Editor>   CS-Studio   OPI Editor

Fault Calendar ✕   **Log Tree**

	Fri 9/16/16	Sat 9/17/16	Sun 9/18/16	Mon 9/19/16	Tue 9/20/16	Wed 9/21/16	Thu 9/22/16
17:00					17:03-20:04 Linac:Diagnostics:M02 Controls This temp spike originated from the cooling tower DI sustem		
18:00							
19:00							
20:00							
21:00							
22:00							
23:00							

-14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 0 1 2 3 4 5 6 7

Fault Table ✕

Search:

Start: 2016-09-20T22:37:56.050   End: 2016-09-21T22:37:56.055

Area	System	Device	Fault Start	Fault Duration	Beamloss	Beamloss Start	Beam...	Desc
Linac	Diagnostics	M02	2016-09-20T17...	3:01:00	False			This temp spike origina
Global	EPS	M01	2016-09-21T22...	0:00:08	False			Beam Dumped from Ca
Global	Diagnostics	M01	2016-09-07T13...		False			A Fault with log entries
Global	Diagnostics	M01	2016-09-13T15...		Studies			A linked fault reportCau
Linac	EPS	M01	2016-09-12T15...	24:03:00	False			And a new faultCause:U

Update Fault Report
Fault Details
Email Fault
Export Fault

Kunal Shroff

Reading fault reports

Faults →
    log entries →

        databrowser(.plt)
        probe
        alarm msg history
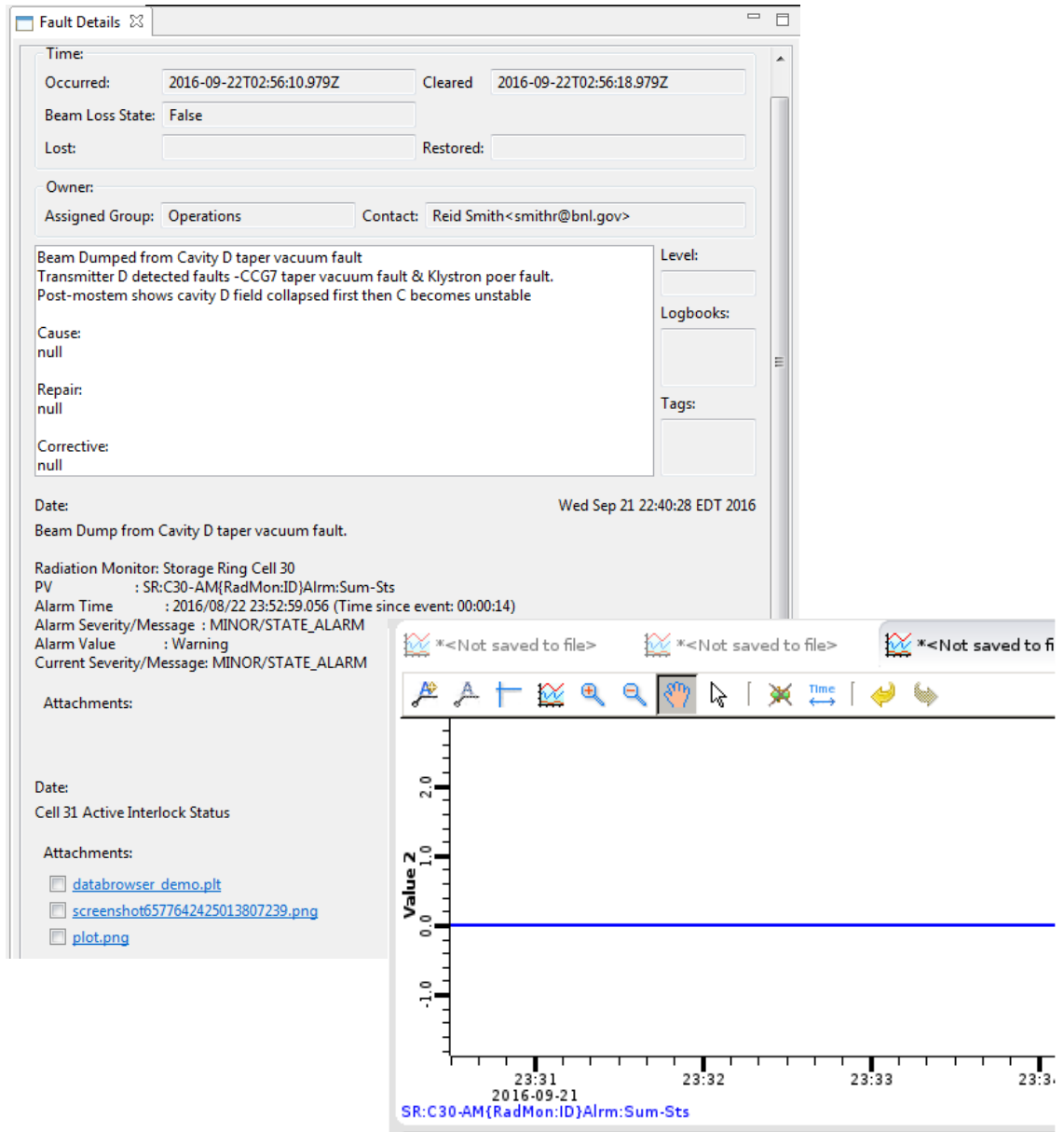
Perspectives

Perspectives in 4.3.3

- Save and Share named perspectives with other users of cs-studio

- Perspectives are created by users instead of developers and model the workflow of the users

  e.g.
  - Operations group is creating "Booster Injection Tuning" perspective

Booster Injection Tuning

Questions?